



Geometric Etude #3

Suite: Geometric Etudes
by Arya Akhavan (October 2013)

Angles for R.I. = 1.540

92 + 7 girdles = 99 facets

7-fold, mirror-image symmetry

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L/W = 1.026 T/W = 0.253 U/W = 0.247

P/W = 0.487 C/W = 0.179

Vol./W³ = 0.223

PAVILION

P1	43.00°	04-07-15-18- 26-29-37-40- 48-51-59-62- 70-73	Cut to centerpoint.
G1	90.00°	77-11-22-33- 44-55-66	Set stone size.
P2	65.00°	77-11-22-33- 44-55-66	Level girdle.

CROWN

C1	40.00°	77-11-22-33- 44-55-66	Set girdle width.
C2	29.66°	03-08-14-19- 25-30-36-41- 47-52-58-63- 69-74	Meet G1, C1
C3	28.23°	05-06-16-17- 27-28-38-39- 49-50-60-61- 71-72	Meet G1, C1, C2
C4	22.27°	02-09-13-20- 24-31-35-42- 46-53-57-64- 68-75	Meet C1, C2
C5	20.32°	05-06-16-17- 27-28-38-39- 49-50-60-61- 71-72	Meet C2, C3, C4
C6	12.56°	77-11-22-33- 44-55-66	Meet C4, C5
T	0.00°	Table	Meet C5, C6

Here's another pattern following the same theme of a regular n-gon with every vertex connected. Of course, with the odd symmetry, it's got very high light return, and it has a very continuous domed crown, which I like. Works in materials from feldspar to rutile (RI = 1.52 - 2.62) with no changes, but I prefer it in peridot.

Suggested size = 9-15 mm

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